




**2-Phenylbenzimidazole sulphonic acids as UV-B filters****Publication number:** EP1167358**Publication date:** 2002-01-02**Inventor:** HEYWANG ULRICH DR (DE); SCHWARZ MICHAEL DR (DE); PFLUECKER FRANK DR (DE)**Applicant:** MERCK PATENT GMBH (DE)**Classification:****International:** A61K8/49; A61Q17/04; C07D235/18; A61K8/30; A61Q17/04; C07D235/00; (IPC1-7): C07D235/18; A61K7/42**European:** A61K8/49F1; A61Q17/04; C07D235/18**Application number:** EP20010115094 20010621**Priority number(s):** DE20001030663 20000623**Also published as:** US2002016349 (A1) ← JP2002047275 (A) DE10030663 (A1) EP1167358 (B1)**Cited documents:** WO9315061 EP0669323 DE676103**Report a data error here****Abstract of EP1167358**

Unsubstituted and substituted 2-phenyl-benzimidazole-di- and -tri-sulfonic acid derivatives are new. Unsubstituted and substituted 2-phenyl-benzimidazole-di- and -tri-sulfonic acids of formula (I) are new: n = 0, 1 or 2; m = 2 or 3; R<1-5> = H, 1-8 C alkyl, 1-8 C alkoxy, hydroxy, sulfate, nitro, fluorine (F), chlorine (Cl), bromine (Br) or iodine (I); R<6> = 1-8 C alkyl or 1-8 C alkoxy. Independent claims are also included for: (1) cosmetic formulations with ultraviolet protection properties containing compound(s) (I); and (2) the preparation of (I).

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